

TENNESSEE HONORS PROGRAM APPLICATION

Full Name _____

Soc.Sec. No. _____

_____ Last First Middle Initial

Home Address _____

Home Phone (____) _____

_____ City Zip
School Name _____

_____ Month Day Year
Date of Birth _____

School Phone (____) _____

School Address _____

County School In _____

_____ City Zip

Responding to Research Question # _____

Principal's Name (Print or type) _____

Congressional District of School _____

Section I (40 points maximum)

1. List all courses taken Grades 9-11. Express quality points in whole numbers only.
(A--4, B--3, C--2, D--1)

Ninth Grade

Tenth Grade

Course	1st Sem. Qual. Pts.	2nd Sem. Qual. Pts.	Course	1st Sem. Qual. Pts.	2nd Sem. Qual. Pts.
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

Eleventh Grade

Course	1st Sem.	Please list 2 nd semester courses
	Qual. Pts.	
_____	_____	
_____	_____	
_____	_____	
_____	_____	
_____	_____	
_____	_____	



ED-2465 (Rev. 3/07)

Name _____

Section I (continued)

Overall Grade Point Average (Based on 4.0 Scale) _____

Total projected number of units at graduation _____

Other Achievement Instruments - List and Give Scores (Reverse side may be used).

Section II (20 points maximum)

In the areas below list accomplishments, awards, honors and other recognition. Be sure to include descriptions of publications, recordings or musical compositions, etc. (Attach extra 8 1/2 x 11 sheets, if necessary.)

A. School Related Activities (10 points)

1. Academic Clubs and Activities
2. Extra-Curricular Activities

B. Community Service Activities (5 points)

C. Please describe any special skills, talents, hobbies, etc., you would like considered. (5 points)

Section III (40 points maximum)

Please answer one of the attached questions according to the instructions in your packet.

To the best of my knowledge, the applicant's statements on the foregoing application are true.

Nominated by:

Recommended by:

Name

Principal's Signature

Position

Date

This completed application MUST BE POSTMARKED on Friday, April 13, 2007 AND/OR received by us no later than 4:30 p.m. CST, Friday, April 13, 2007.

Mail to: Nicole Cobb, Director of School Counseling
Department of Education
5th Floor Andrew Johnson Tower
710 James Robertson Parkway
Nashville, Tennessee 37243-0379



Name _____
SSN _____
School _____

RESEARCH QUESTIONS

I. ARTS: Choose a twentieth or twenty-first century *creator* of art: composer, choreographer, playwright, painter, sculptor, etc. Discuss this artist's work, what makes the work unique to this artist, specific influences that affected his or her work, and the impact of this work on society (either on society as a whole or on specific segments of society). You should include a minimum of 5 or 6 references. These references must include several sources other than the internet and textbooks.

II. LANGUAGE ARTS: The individuals listed below have made strong contributions to Tennessee literary history:
Sequoyah;
Shelby Foote;
Caroline Gordon; and
Father Abram Ryan.

Select **ONE** of these and write a research paper that includes these points:

- background of the individual and the time in which he/she lived;
- contribution to literary history/tradition (e.g., Sequoyah, Cherokee alphabet, Father Ryan, poetry)
- ongoing effect of the individual on the literature of Tennessee and/or the United States

Remember: This is a research paper, and it should show evidence of thoughtful investigation and consideration. You should use at least four (4) sources, only one (1) of which should be an online resource.

III. SCIENCE: Research the causes and effects of global climate change. Write an essay that summarizes these causes and effects and that includes discussion of at least three approaches to prevention/clean up of greenhouse gases on which you feel the U.S. should focus efforts.

IV. SOCIAL STUDIES: You are a present day U.S. Senator. You are faced with increasing opposition to the Iraqi war from your constituents. Bills are being introduced to limit funding and reduce troop numbers for the war effort. In 1500 words or less, state your position on the war, what you propose to do about it and your stand on any proposed legislation concerning the war.

V. CAREER & TECHNICAL EDUCATION:

You may choose only ONE of the following two questions:

1.) In the technologically advanced society that we live in, web pages have become an effective tool for everything from advertising to on-line information and databases. With this in mind, create a web page(s) for a character in a work of fiction that you have read and/or studied in school. In an essay, explain what you included, and what areas of research you used. Please include a hard copy of the site along with a floppy disk. Please ensure that you include your picture and sound files on the disk. The site is not limited to 500-100 words.

2.) Describe what is meant by "The New Economy" and research how it relates to your chosen vocational program area.

Include:

Impact on job market Technology

Worker behaviors

Training/education needed

VII. MATH: Euler's Formula

$$e^{ix} = \cos x + i \sin x$$

Leonhard Euler is considered one of the greatest mathematicians to ever walk the planet. His memory, his ability to perform mental calculations, and his sheer volume of work (even while totally blind) are facets of a man whose abilities are still difficult to fathom.

He developed many formulas, but one that has been historically referred to simply as *Euler's Formula* is:

$$e^{ix} = \cos x + i \sin x$$

This year's math problem will be devoted to this simple, yet profound expression. Your assignment is as follows:

- 1) Provide a concise historical setting for the man, the formula and its discovery. (approximately 1 -2 pages.)
- 2) Provide your most elegant proof of Euler's Formula. Include appropriate figures. (There is no limit to number of pages you may use here, but lengthy proofs are rarely elegant. Keep it reasonable.)
- 3) Richard Feynman, now legendary physics lecturer at CalTech, said that Euler's Formula was the most remarkable formula in mathematics.
 - a) Why would Feynman say such a thing?
 - b) Give some ramifications, applications, connections, examples, etc., of the power and usefulness of Euler's formula.

[NOTE: Question #3 should be expansive enough to demonstrate your knowledge, but concise enough to move quickly and keep the reader's attention. The emphasis is on keeping the reader's attention, and demonstrating your broad knowledge of the implications of Euler's Theorem. An exhaustive treatise is not advised.]

Please adhere to these guidelines:

- 1) All entries should be typed.
- 2) On narrative sections use 1 ½ spacing, Times New Roman, size 12 font. Use 1 inch margins.
- 3) On proofs, use appropriate spacing.